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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,270	11/04/2003	David N. Schmaling	67,008-080;S-5643	4996	
26096	7590 12/29/2004		EXAMINER		
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD			RAEVIS, ROBERT R		
SUITE 350	AI LL ROAD		ART UNIT	PAPER NUMBER	
BIRMINGHA	M, MI 48009		2856		

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/701,270	SCHMALING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert R. Raevis	2856	· And			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence addres	:s			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS from the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this commun NED (35 U.S.C. § 133).	nication.			
Status						
1) Responsive to communication(s) filed on 09 D	Pecember 2004.					
	<u> </u>					
Disposition of Claims						
 4) Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) 1-13 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 14-17 and 20-22 is/are rejected. 7) Claim(s) 18 and 19 is/are objected to. 8) Claim(s) are subject to restriction and/o 	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			` '			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicate rity documents have been rece u (PCT Rule 17.2(a)).	ation No ived in this National Stag	je			
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/4/03. 	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:)			

DETAILED ACTION

Election of Claims 14-22 is acknowledged.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14,15,16,17,20,21,22 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Baird et al.

Baird et al teach (Figure 9) a method of determining defects within a composite structure, including: affixing a seal 91 assembly to the skin of an aircraft composite structure, affixing an attachment ("two vacuum pads" on col. 9, lines 37-38) to the skin of the composite, displacing the attachment relative to the seal assembly (col. 10, lines 9-15), and relating the steps with information on the film to determine a defect type, including fractures, delaminations and weak bonding which proved for abnormal fringe patterns (col. 7, lines 55-64).

Baird does not state that the composite is of the nature that includes a "core" composite structure.

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As to claim 14, either (1) Baird's aircraft composite structure suggests that described on pages 1-2 of Applicant's specification, and thus is inherent, or (2) Baird's aircraft composite structure suggests testing any known aircraft composite structure, such as that described on pages 1-2 of Applicant's written specification.

As to claim 15, the vacuum pads require a vacuum in the displacement step.

As to claim 16, note Baird's "change the load" (col. 10, line 12) teaching, which relates to variation in path length as described on col. 7, lines 47-64.

As to claim 17, variation in path length with changes in load are the result of stiffness variation.

As to claim 20, note that Baird varies the load to form fringes on col. 10, lines 10-15, and that a first and second location may necessarily be the same location.

As to claim 21, note the vacuum source 40 and seal 91.

Claims 18,19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 571-272-2204. The examiner can normally be reached on Monday to Friday from 5:30am to 3pm. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

RAZVIS